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# *Online Book Publishing and Sales Platform - Database0 Documentation*

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**DATABASE NAME : BOOKS\_PUBLISHING\_SYSTEM**

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## CREATING TABLES:

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```
CREATE TABLE Publisher(  
publisher_id int primary key,  
name varchar(250) not null,  
contact_details varchar(250)  
);
```

Creating a Publisher Table and the columns are publisher\_id data type Int (Primary key), name data type varchar, contact\_details data type varchar.

---

```
CREATE TABLE Book(  
book_id int primary key,  
title varchar(250) not null,
```

**ISBL varchar(100) not null,  
edition int not null,  
publication\_year int,  
price decimal(10, 2),  
publisher\_id int,  
foreign key (publisher\_id) references Publisher(publisher\_id) on delete  
cascade  
);**

Creating a Book Table and the columns are book\_id data type Int (Primary key),  
title data type varchar, ISBL data type Int, edition data type Int,  
publication\_year data type Int, price data type decimal, publisher\_id data type  
Int (Foreign key).

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**CREATE TABLE Genere(  
genere\_id int primary key,  
genere\_name varchar(250) not null  
);**

Creating a Genere Table and the columns are genere\_id data type Int (Primary  
key), genere\_name data type varchar.

---

**CREATE TABLE Book\_genere(  
book\_id int,  
genere\_id int,  
primary key(book\_id, genere\_id),**

```
foreign key (book_id) references Book(book_id),  
foreign key (genere_id) references Genere(genere_id)  
);
```

Creating a Book\_genere Table and the columns are book\_id data type Int (Primary key and Foreign key), genere\_id data type int(Primary key).

---

```
CREATE TABLE Author(  
author_id int primary key,  
name varchar(250) not null,  
biography text  
);
```

Creating a Author Table and the columns are author\_id data type Int (Primary key), name data type varchar, biography data type text.

---

```
CREATE TABLE Book_Author(  
book_id int,  
author_id int,  
primary key (book_id, author_id),  
foreign key (book_id) references Book(book_id),  
foreign key (author_id) references Author(author_id)  
);
```

Creating a Book\_author Table and the columns are book\_id data type int (Primary key and Foreign key), author\_id data type Int (Primary key and Foreign key) and this is a Junction Table.

---

```
CREATE TABLE Customer(  
customer_id int primary key,  
name varchar(250) not null  
);
```

Creating a Customer Table and the columns are customer\_id data type int (Primary key), name data type varchar.

---

```
CREATE TABLE Address(  
address_id int primary key,  
customer_id int,  
street varchar(250),  
city varchar(250),  
state varchar(250),  
country varchar(250),  
foreign key (customer_id) references Customer(customer_id)  
);
```

Creating a Address Table and the columns are address\_id data type Int (Primary key), customer\_id data type int (Primary key and Foreign key), street data type varchar, city data type text, state data type varchar, country data type varchar.

```
CREATE TABLE Wishlist(  
customer_id int,  
book_id int,  
primary key (customer_id, book_id),  
foreign key (customer_id) references Customer(customer_id),  
foreign key (book_id) references Book(book_id)  
);
```

Creating a Wishlist Table and the columns are customer\_id data type Int (Primary key and Foreign key), book\_id data type int (Primary key and Foreign key).

---

```
CREATE TABLE Orderr(  
order_id int primary key,  
order_date date not null,  
customer_id int,  
payment_details varchar(250),  
shipping_address_id int,  
foreign key (customer_id) references Customer(customer_id),  
foreign key (shipping_address_id) references Address(address_id)  
);
```

Creating a Orderr Table and the columns are order\_id data type Int (Primary key), order\_date data type date, customer\_id data type int (Primary key and Foreign key), payment\_details data type varchar, shipping\_address\_id data type int (Foreign key).

```

CREATE TABLE Order_book(
Orderitem_id int primary key,
order_id int,
book_id int,
quantity int not null,
foreign key (order_id) references Orderr(order_id),
foreign key (book_id) references Book(book_id)
);

```

Creating a Order\_book Table and the columns are orderitem\_id data type Int (Primary key), order\_id data type (Foreign key), book\_id data type int (Foreign key), quantity data type int.

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## INSERTING DATA INTO TABLES:

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```

INSERT INTO Publisher (publisher_id, name, contact_details)

```

```

VALUES

```

```

(1, 'Penguin Random House', 'contact@penguin.com'),

```

```

(2, 'HarperCollins', 'support@harpercollins.com');

```

|   | publisher_id | name                 | contact_details           |
|---|--------------|----------------------|---------------------------|
| ▶ | 1            | Penguin Random House | contact@penguin.com       |
|   | 2            | HarperCollins        | support@harpercollins.com |
| • | NULL         | NULL                 | NULL                      |

**INSERT INTO Book (book\_id, title, ISBL, edition, publication\_year, price, publisher\_id)**

**VALUES**

**(1, 'The Silent Patient', '9781250301697', 1, 2019, 499.99, 1),**

**(2, 'Atomic Habits', '9780735211292', 1, 2018, 399.50, 2),**

**(3, 'Clean Code', '9780132350884', 2, 2008, 699.00, 1);**

|   | book_id | title              | ISBL          | edition | publication_year | price  | publisher_id |
|---|---------|--------------------|---------------|---------|------------------|--------|--------------|
| ▶ | 1       | The Silent Patient | 9781250301697 | 1       | 2019             | 499.99 | 1            |
|   | 2       | Atomic Habits      | 9780735211292 | 1       | 2018             | 399.50 | 2            |
|   | 3       | Clean Code         | 9780132350884 | 2       | 2008             | 699.00 | 1            |
| • | NULL    | NULL               | NULL          | NULL    | NULL             | NULL   | NULL         |

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**INSERT INTO Genre (genre\_id, genre\_name)**

**VALUES**

**(1, 'Thriller'),**

**(2, 'Self-help'),**

**(3, 'Programming');**

|   | genre_id | genre_name  |
|---|----------|-------------|
| ▶ | 1        | Thriller    |
|   | 2        | Self-help   |
|   | 3        | Programming |
| • | NULL     | NULL        |

**INSERT INTO Book\_genere (book\_id, genere\_id)**

**VALUES**

**(1, 1), -- The Silent Patient -> Thriller**

**(2, 2), -- Atomic Habits -> Self-help**

**(3, 3); -- Clean Code -> Programming**

|   | book_id | genere_id |
|---|---------|-----------|
| ▶ | 1       | 1         |
|   | 2       | 2         |
|   | 3       | 3         |
| • | NULL    | NULL      |

**INSERT INTO Author (author\_id, name, biography)**

**VALUES**

**(1, 'Alex Michaelides', 'British-Cypriot author.')**

**(2, 'James Clear', 'Speaker and writer on habits.')**

**(3, 'Robert C. Martin', 'Also known as Uncle Bob, software engineer.');**

|   | author_id | name             | biography                                   |
|---|-----------|------------------|---|
| ▶ | 1         | Alex Michaelides | British-Cypriot author.                     |
|   | 2         | James Clear      | Speaker and writer on habits.               |
|   | 3         | Robert C. Martin | Also known as Uncle Bob, software engineer. |
| • | NULL      | NULL             | NULL  |



**INSERT INTO Book\_Author (book\_id, author\_id)**

**VALUES**

**(1, 1), -- The Silent Patient -> Alex**

**(2, 2), -- Atomic Habits -> James**

**(3, 3); -- Clean Code -> Robert**

|   | book_id | author_id |
|---|---------|-----------|
| ▶ | 1       | 1         |
|   | 2       | 2         |
|   | 3       | 3         |
| • | NULL    | NULL      |

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**INSERT INTO Customer (customer\_id, name)**

**VALUES**

**(1, 'Rachel Green'),**

**(2, 'Monica Geller');**

|   | customer_id | name          |
|---|-------------|---------------|
| ▶ | 1           | Rachel Green  |
|   | 2           | Monica Geller |
| • | NULL        | NULL          |

```
INSERT INTO Address (address_id, customer_id, street, city, state, country)
VALUES
```

```
(1, 1, '123 Park Ave', 'New York', 'NY', 'USA'),
(2, 2, '456 Central Perk', 'New York', 'NY', 'USA');
```

|   | address_id | customer_id | street           | city     | state | country |
|---|------------|-------------|------------------|----------|-------|---------|
| ▶ | 1          | 1           | 123 Park Ave     | New York | NY    | USA     |
|   | 2          | 2           | 456 Central Perk | New York | NY    | USA     |
| ● | NULL       | NULL        | NULL             | NULL     | NULL  | NULL    |

```
INSERT INTO Wishlist (customer_id, book_id)
```

```
VALUES
```

```
(1, 2), -- Rachel -> Atomic Habits
(1, 3), -- Rachel -> Clean Code
(2, 1); -- Monica -> The Silent Patient
(3, 'Clean Code', '9780132350884', 2, 2008, 699.00, 1);
```

|   | customer_id | book_id |
|---|-------------|---------|
| ▶ | 2           | 1       |
|   | 1           | 2       |
|   | 1           | 3       |
| ● | NULL        | NULL    |

**INSERT INTO Orderr (order\_id, order\_date, customer\_id, payment\_details, shipping\_address\_id)**

**VALUES**

**(1, '2025-06-01', 1, 'Credit Card', 1),**

**(2, '2025-06-02', 2, 'PayPal', 2);**

|   | order_id | order_date | customer_id | payment_details | shipping_address_id |
|---|----------|------------|-------------|-----------------|---------------------|
| ▶ | 1        | 2025-06-01 | 1           | Credit Card     | 1                   |
|   | 2        | 2025-06-02 | 2           | PayPal          | 2                   |
| • | NULL     | NULL       | NULL        | NULL            | NULL                |

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**INSERT INTO Order\_book (Orderitem\_id, order\_id, book\_id, quantity)**

**VALUES**

**(1, 1, 2, 1), -- Rachel ordered Atomic Habits**

**(2, 1, 3, 1), -- Rachel also ordered Clean Code**

**(3, 2, 1, 2); -- Monica ordered 2 copies of The Silent Patient**

|   | Orderitem_id | order_id | book_id | quantity |
|---|--------------|----------|---------|----------|
| ▶ | 1            | 1        | 2       | 1        |
|   | 2            | 1        | 3       | 1        |
|   | 3            | 2        | 1       | 2        |
| • | NULL         | NULL     | NULL    | NULL     |

## ER Diagram:

